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Middle Atmosphere Program

(NASA-CR-175480) MIDDLE ATMOSPHERE PROGRAM.
HANDBOOK FOR MAP, VOLUME 6 (International
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HANDBOOK FOR MAP VOLUME 6

Edited by
C. F. Sechrist, Jr.



M I D D L E
A T M O S P H E R E
P R O G R A M

HANDBOOK FOR MAP

VOLUME 6

Edited by

C. F. Sechrist, Jr.
Chairman
MAP Publications Committee

November 1982

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FOREWORD

The Middle Atmosphere Program (MAP) is an international scientific cooperative program under the aegis of the Scientific Committee on Solar-Terrestrial Physics (SCOSTEP). It commenced on January 1, 1982 and will conclude on December 31, 1985. MAP will be followed by a further period of cooperation known as Middle Atmosphere Continuation (MAC) in order to take advantage of new satellite and Spacelab experiments scheduled to be operational in the 1985-1990 time frame.

MAP had its origins in a proposal made at the 1972 meeting of IUCSTP to organize a coordinated global program to study the structure and energetics of the stratosphere and mesosphere. MAP is in the pattern of other programs of geophysical study, such as the International Geophysical Year (IGY), and the International Magnetospheric Study (IMS). MAP is being supervised by a steering committee of scientists composed of nominees of international scientific organizations. Within MAP specific projects are being coordinated by scientists who proposed the projects to their respective countries for support, and for conduct either nationally or in cooperation internationally.

It is appropriate to acknowledge the important contributions of the Preparatory MAP Projects (PMPs), most of which have been replaced by approved MAP Projects. These included: PMP-1, Coordinated Study of the Behavior of the Middle Atmosphere in Winter, K. Labitzke, Chairman; PMP-2, Equatorial Wave Dynamics, I. Hirota, Chairman; PMP-3, Study of Photochemical Processes in the Upper Stratosphere and Mesosphere by Complementary Spacecraft, *in situ*, and Ground Measurements, J. C. Gille, Chairman; PMP-4, Presentation of Meteorological and Chemical Variables in the Format of Monthly Mean Zonal Cross Sections, J. Barnett, Chairman; PMP-5, Solar Spectral Irradiance Measurements, P. C. Simon, Chairman. The following MAP Study Groups also contributed greatly: MSG-1, Tropospheric-Stratospheric Coupling, Chemical and Dynamical, J. R. Holton, Chairman; MSG-2, Transport of Trace Constituents, J. D. Mahlman, Chairman; MSG-3, Tides, Gravity Waves and Turbulence, M. A. Geller, Chairman; MSG-4, Electrodynamics of the Middle Atmosphere, H. Volland, Chairman; MSG-5, Ions and Aerosols, F. Arnold, Chairman.

Although considerable care has been taken in the preparation of this edition of the MAP Directory, it is possible that the names of some scientists conducting MAP-related work are not included. If so, or if any discrepancies in addresses are found, please inform the MAP Secretariat. A future supplement of the MAP Directory will contain any names missing from the current Directory.

S. A. Bowhill
Chairman
MAPSC

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MAP DIRECTORY

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MAP ACRONYMS

AMA	Antarctic Middle Atmosphere Program
ATMAP	Atmospheric Tides Middle Atmosphere Program
CAMP	Cold Arctic Mesopause Project
DYNAMICS	Dynamics of the Middle Atmosphere in Winter-Coordinated Studies
GLOBMET	Global Meteor Observation System
GLOBUS	Global Budget of Stratospheric Trace Constituents
GOSSA	Global Observations and Studies of Stratospheric Aerosols
GRATMAP	Gravity Waves and Turbulence in the Middle Atmosphere Program
MAC	Middle Atmosphere Coordination
MACVAZACS	Meteorological and Chemical Variables as Zonal Averaged Cross Sections
MAE	Middle Atmosphere Electrodynamics
MAP	Middle Atmosphere Program
MAPCIEO	MAP Central Information Exchange Office
MAPNL	MAP Newsletter
MAPSC	MAP Steering Committee
MSG	MAP Study Group
OZMAP	Observations of and Sources of the Spatial and Temporal Variability of Ozone in the Middle Atmosphere on Climatological Time Scales
PMP	Pre-MAP Project
SSIM	Solar Spectral Irradiance Measurements
STRATALERT	Stratospheric Warming Alert
STRATWARN	Stratospheric Warming
SWAMP	Stratwam Mesospheric Project
WINE	Winter in Northern Europe Project

MIDDLE ATMOSPHERE PROGRAM STEERING COMMITTEE

S. A. Bowhill, SCOSTEP, Chairman

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A. D. Danilov, COSPAR

J. C. Gille, COSPAR

J. B. Gregory, SCOSTEP

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T. Nagata, SCAR

R. G. Roper, IUGG/IAMAP

P. C. Simon, IAU

J. Taubenheim, IUGG/IAGA

T. E. Van Zandt, URSI

M. Wada, IUPAP

STANDING COMMITTEES

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F. J. Schmidlin, R. G. Roper

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Members: R. D. Bojkov, V. V. Viskov

MAP REGIONAL CONSULTATIVE GROUP

Europe: M. L. Chanin, Chairman

MAP SECRETARIAT

C. H. Liu, Scientific Secretary

Belva Edwards, Administrative Secretary

MAP STUDY GROUPS

MSG-5 Ions and Aerosols: The purpose of MSG-5 is to review and evaluate theoretical and experimental studies involving middle atmosphere ions and their relationships to neutral gases and aerosols, and to prepare recommendations for coordinated research projects.

Co-Chairmen: F. Arnold and M. P. McCormick

Members: M. Ackerman, E. Arijs, A. W. Castleman, M. L. Chanin,
E. E. Ferguson, D. J. Hofmann, E. Kopp, A. Ono, L. Thomas,
R. P. Turco

MSG-6 Scientific Aspects of an International Equatorial Observatory: The purpose of MSG-6 is to prepare the scientific bases, resolutions, and proposal for the establishment of an international equatorial middle atmosphere observatory to study composition and dynamics.

Chairman: S. Kato

Members: *B. B. Balsley, *J. Blamont, *J. M. Forbes, *M. A. Geller,
*I. Hirota, *R. A. Vincent, *R. F. Woodman

MSG-7 Penetration of Solar Radiation into the Atmosphere: The purpose of MSG-7 is to review and evaluate studies of solar irradiance in the middle atmosphere including Lyman alpha (121.6 nm) and the range 175 nm to the visible, and to recommend future needs.

Chairman: J. E. Frederick

Members: A. J. Blake, D. E. Freeman, R. W. Nicholls, T. Ogawa,
P. C. Simon

MSG-8 Atmospheric Chemistry: The purpose of MSG-8 is to review and evaluate theoretical and experimental studies of middle atmospheric chemical composition, and to identify areas of future research.

Chairman: G. Witt

Members: *J. Barnett, G. Brasseur, A. Ebel, E. J. Llewellyn,
D. Offermann, C. R. Philbrick, S. Solomon, R. P. Wayne

MSG-9 Measurement of Middle Atmosphere Parameters by Long Duration Balloon Flights: The task of MSG-9 is to identify the scientific objectives of long-duration circumpolar balloon flights, and to prepare plans for international participation in measurements in both hemispheres.

Chairman: J. Blamont

Members: *J. Eddy, *D. H. Ehhalt, *M. A. Geller, *Yu. P. Koshelev,
*K. Labitzke, *L. R. Megill, *F. S. Rowland, *H. E. Volland

*Not yet confirmed

MAP PROJECTS

- AMA - Antarctic Middle Atmosphere Program:** The purpose of AMA is to coordinate investigations of dynamics, structure, composition, particle precipitation, middle atmosphere-low ionosphere interactions, and atmospheric pollution of the Antarctic middle atmosphere, and northern-southern polar atmosphere comparisons.
Coordinator: T. Hirasawa
- ATMAP - Atmospheric Tides Middle Atmosphere Program:** The purpose of ATMAP is to facilitate the interaction among observationalists, data analysts, theoreticians and modellers in order to elucidate the nature of atmospheric tides on a global scale.
Coordinator: J. M. Forbes
- CAMP - Cold Arctic Mesopause Project:** The purpose of CAMP is to coordinate observations on the high-latitude mesopause region in summer 1982.
Coordinator: L. Bjorn
- DYNAMICS - Dynamics of the Middle Atmosphere in Winter:** The purpose of DYNAMICS is to coordinate studies of middle atmosphere dynamical quantities and to intercompare basic data obtained from several measurement techniques, with emphasis on disturbed winter conditions.
Coordinator: K. Labitzke
- SWAMP - Stratwam Mesospheric Project (sub-project of DYNAMICS):** The purpose of SWAMP is to coordinate observational studies of the middle atmosphere composition and dynamics during a stratospheric warming in Europe.
Coordinator: D. Offermann
- GLOBMET - Global Meteor Observation System:** The aim of GLOBMET is to intensify research in meteor physics and astronomy in the 1980s by making wider use of the latest achievements in this field and expanding international coordination in meteor research.
Coordinator: R. G. Roper
- GLOBUS - Global Budget of Stratospheric Trace Constituents:** The purpose of GLOBUS is to coordinate two integrated campaigns to compare results of experimental techniques for measuring stratospheric trace gases, and to measure the latitudinal distribution of trace gases using near simultaneous balloon flights.
Coordinator: D. Offermann
- GOSSA - Global Observations and Studies of Stratospheric Aerosols:** The purpose of GOSSA is to coordinate measurements of aerosol

characteristics, to disseminate alerts and calendars, to communicate data sets to experimenters, and to organize workshops in order to facilitate data and information exchange.
Coordinator: M. P. McCormick

GRATMAP - Gravity Waves and Turbulence in the Middle Atmosphere Program: The initial aim of GRATMAP is to plan and coordinate measurement programs designed to delineate the global morphology of gravity waves and turbulence, including geographical and seasonal variability.

Coordinator: M. A. Geller

MACVAZACS - Meteorological and Chemical Variables as Zonal Averaged Cross Sections: The objective of MACVAZACS is to prepare middle atmosphere meteorological and chemical variables in the format of monthly mean zonal cross sections.

Coordinator: J. M. Russell

*MAE - Middle Atmosphere Electrodynamics: The objective of MAE is the coordination of observations accompanied by laboratory experiments, theoretical studies and modeling in order to elucidate basic physical and chemical processes, electric source mechanisms, and the nature and characteristics of electric coupling between the lower and upper atmospheres.

Coordinator: N. C. Maynard

*OZMAP - Observations of, and Sources of the Spatial and Temporal Variability of Ozone in the Middle Atmosphere on Climatological Time Scales: The aim of OZMAP is to coordinate the preparation of daily synoptic maps of global ozone fields that serve as the basis for a three-dimensional ozone climatology.

Coordinator: D. F. Heath

SSIM - Solar Spectral Irradiance Measurements: The purpose of SSIM is to coordinate intercomparisons of solar ultraviolet irradiance measurements, assess the validity of calibration procedures, and propose a definition of a spectral irradiance reference scale for solar ultraviolet measurements.

Coordinator: P. C. Simon

WINE - Winter in Northern Europe Project: The aim of WINE is to coordinate observational studies of the high-latitude European middle atmosphere in winter, leading to an improved understanding of the winter variability structure, motions, and composition.

Coordinator: U. von Zahn

MAP NATIONAL REPRESENTATIVES

Argentina: S. M. Radicella
Australia: K. D. Cole
Belgium: P. C. Simon
Canada: J. B. Gregory
Czechoslovakia: J. Lastovicka
Denmark: J. K. Olesen
Finland: C. G. Sucksdorff
France: M. L. Chanin
Federal Republic of Germany: U. von Zahn
German Democratic Republic: J. Taubenheim
Hungary: P. Bencze
India: Y. V. Somayajulu
Ireland: P. Lynch
Israel: J. H. Joseph
Italy: G. Fiocco
Japan: S. Kato
New Zealand: G. Fraser
Norway: E. V. Thrane
South Africa: G. J. Kuhn
Spain: J. O. Cardus
Sri Lanka: S. Gnanalingam
Sweden: G. Witt
Taiwan: J. K. Chao
UK: L. Thomas
USA: J. D. Mahlman/N. Sundararaman
USSR: E. S. Kazimirovsky

INTERNATIONAL ORGANIZATIONS ADHERING TO MAP AND THEIR REPRESENTATIVES

COSPAR, Committee on Space Research: A. D. Danilov, J. C. Gille,
K. Labitzke

IAGA, International Association of Geomagnetism and Aeronomy:
L. R. Megill, J. Taubenheim

IAMAP, International Association of Meteorology and Atmospheric Physics:
I. Hirota, R. G. Roper

IAU, International Astronomical Union: P. C. Simon

IUPAP, International Union of Pure and Applied Physics: M. Wada

SCAR, Scientific Committee on Antarctic Research: T. Nagata

SCOSTEP, Scientific Committee on Solar-Terrestrial Physics: S. A.
Bowhili, J. B. Gregory

URSI, Union Radio Scientifique Internationale: J. W. King, T. E. Van
Zandt

WMO, World Meteorological Organization: R. D. Bojkov

LISTING OF SCIENTISTS BY COUNTRY

ARGENTINA

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 Pommereau, J.-P.
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 Vidal-Madjar, Dr.
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 Waldteufel, P.
 Weill, G. M.

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 Bohme, W.
 Cossart, G. V.
 Entzian, G.
 Feister, U.
 Glode, P.
 Greisiger, K. M.
 Grieger, N.
 Knuth, R.
 Kruger, W.
 Lauter, E. A.
 Schminder, R.
 Schmitz, G.
 Soannemann, G.
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 Zimmermann, G.

GHANA

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HONG KONG

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Tanczer, T.

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Agrawal, J. P.
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Mukherjee, B. K.
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Narayanan, V.
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Prakash, S.
Prasad, B. S. N.
Raghavarao, R.
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Rajaram, G.
Raja Rao, K. S.
Ramachandra Rao, B.
Ramakrishna, S.
Ramana Murty, Bh. V.
Ramanamurty, Y. V.
Ramanathan, K. R.
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Rao, P. S. K.
Rao, V. R.
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Reddy, C. A.
Reddy, R. S.
Redkar, R. T.
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Seshamani, R.
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Sharma, M.
Shirvaikar, V. V.
Sikka, D. R.
Singh, R. N.
Somayajulu, V. V.
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Subbaraya, B. H.
Zalpur, K. S.

INDONESIA

Karjoto, S.
Soergijo, J.

IRAN

Zomorrodian, H.

IRELAND

Bates, J. R.
Best, G. T.
Burke, T. P.
Greer, R. G. H.
Lynch, P.
Mathews, R. O.
McKenna-Lawlor, S.
Roddy, A.
Smith, R. W.

ISRAEL

Eviatar, A.
Joseph, J. H.
Ne'eman, Y.
Otterman, J.
Pardo, A. C.

ITALY

Candidi, M.
Checcacci, P. F.
Daly, G.
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